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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/901,286	07/09/2001	Hal Joseph Burch	2-9	7595	
7590 11/07/2005			EXAMINER		
Lucent Technologies Inc.			HOFFMAN, BRANDON S		
Docket Administrator (Room 3J-219) 101 Crawfords Corner Road		ART UNIT	PAPER NUMBER		
Holmdel, NJ	07733		2136		
			DATE MAIL ED: 11/07/200	DATE MAILED: 11/07/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	09/901,286	BURCH ET AL.					
Office Action Summary	Examiner	Art Unit					
	Brandon S. Hoffman	2136					
The MAILING DATE of this communication apports of the second for Reply	ears on the cover sheet with the co	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	TE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim fill apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONED	l. ely filed the mailing date of this communication. O (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 28 Ju	ne 2005.						
, _							
3) Since this application is in condition for allowan	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-30</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-30</u> is/are rejected.							
7) Claim(s) is/are objected to.	7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:						

DETAILED ACTION

1. Claims 1-30 are pending in this office action.

2. Applicant's arguments (including the affidavit), file June 28, 2005, have been considered and are persuasive. However, a new ground of rejection is made.

Rejections

3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 103

4. <u>Claims 1-30</u> are rejected under 35 U.S.C. 103(a) as being unpatentable over <u>Gupta et al.</u> (U.S. Patent No. 6,658,565) in view of <u>Munger et al.</u> (U.S. Patent No. 6,502,135).

Regarding claims 1 and 16: Gupta et al. discloses a method/apparatus for tracing a sequence of packets to a potential source thereof within a communications network, the sequence of packets being received at a target host in said communications network at a received packet rate, the method comprising the steps of:

 For each selected network element, measuring a change in said received packet rate in response to said application of said burst load to said selected network element (col. 7, line 66 through col. 8, line 2); and

 Determining said potential source of said sequence of packets based on said measured changes in said received packet rate (col. 8, lines 2-4).

Gupta et al. does not teach applying a burst load to each of one or more selected network elements in said communications network.

Munger et al. teaches applying a burst load to each of one or more selected network elements in said communications network (col. 10, lines 6-21).

It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to combine applying burst loads to each network element, as taught by Munger et al., with the method/apparatus of Gupta et al. It would have been obvious for such modifications because bursts of packets on a network element can help determine the identities of the sender and receiver (see col. 2, lines 49-51 of Munger et al.).

Regarding claims 2 and 17: Gupta et al. as modified by Munger et al. discloses wherein said communications network comprises the Internet (see col. 2, lines 51-56 of Gupta et al.).

Regarding claims 3 and 18: Gupta et al. as modified by Munger et al. discloses wherein each of said selected network elements comprises a network link (see fig. 2, ref. num 208 of Gupta et al.).

Regarding claims 4 and 19: Gupta et al. as modified by Munger et al. discloses wherein said step of applying a burst load to said network link comprises transmitting packets to a sub network of said communications network to initiate a responsive flow of packets through said network link (see col. 4, lines 35-42 of Munger et al.).

Regarding claim 5 and 20: Gupta et al. as modified by Munger et al. discloses wherein said transmitted packets are spoofed from an end of said network link closest to said target host (see col. 3, lines 42-48 of Gupta et al., DoS attacks are performed by spoofing the source address).

Regarding claims 6 and 21: Gupta et al. as modified by Munger et al. discloses wherein said transmitted packets comprise UDP chargen requests (see col. 9, lines 64-65 of Munger et al.).

Regarding claims 7 and 22: Gupta et al. as modified by Munger et al. discloses wherein each of said selected network elements comprises a network router (see col. 1, line 25 of Gupta et al.).

Regarding claims 8 and 23: Gupta et al. as modified by Munger et al. discloses further comprising the step of generating a map comprising routes from said target host to a plurality of sub networks of said communications network (see col. 1, line 25, a router is known to have a routing table of all sub network elements connected to it).

Regarding claims 9 and 24: Gupta et al. as modified by Munger et al. discloses further comprising the step of eliminating said selected network element from consideration as said potential source of said sequence of packets when said change in said received packet rate meets a predetermined criterion (see col. 7, line 66 through col. 8, line 6 of Gupta et al.).

Regarding claims 10 and 25: Gupta et al. as modified by Munger et al. discloses wherein said predetermined criterion comprises a determination of whether said change in said received packet rate is less than a predetermined threshold (see col. 8, lines 2-6 of Gupta et al.).

Regarding claims 11 and 26: Gupta et al. as modified by Munger et al. discloses wherein said step of eliminating said selected network element from consideration also eliminates from consideration one or more sub networks of said communications network which are connected to said selected network element (see col. 8, lines 2-6 of Gupta et al., sub networks, which are connected to the parent network element, would

inherently be eliminated from suspicion because of their dependency on the parent network element).

Regarding claims 12 and 27: Gupta et al. as modified by Munger et al. discloses wherein said sequence of packets comprises a Denial-of-Service attack on said target host (see abstract of Munger et al.).

Regarding claims 13 and 28: Gupta et al. as modified by Munger et al. discloses wherein said steps of applying said burst load, measuring said changes in said received packet rate, and determining said potential source of said sequence of packets, are executed under the control of an automated algorithm (see col. 7, lines 60-62 of Gupta et al.).

Regarding claims 14 and 29: Gupta et al. as modified by Munger et al. discloses wherein said steps of applying said burst load and determining said potential source of said sequence of packets, are executed under the at least partial control of a human operator (see col. 7, lines 50-52 and 63-66 of Gupta et al.).

Regarding claims 15 and 30: Gupta et al. as modified by Munger et al. discloses further comprising the step of displaying information, said information including data representative of said measured changes in said received packet rate, to said human operator, for use by said human operator in exercising said at least partial control (see

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col. 7, lines 50-52 and 63-66 of Gupta et al., GUI's are commonly used to change

settings).

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Brandon S. Hoffman whose telephone number is 571-

272-3863. The examiner can normally be reached on M-F 8:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ayaz R. Sheikh can be reached on 571-272-3795. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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AÝAZ SHEIKH
SUPERVISORY PATENT EXAMINER

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